West Virginia

DWSRF Set-Aside

Supplemental Grant Funds

Progress Activity Report

For Time Period

July 1, 2011 – December 31, 2011

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Summary of Program Implementation

OEHS provides EPA with a PWSS/SRF update at the mid-year and at the end of the year to report on PWSS/SRF grant work plan activities. Please refer to that update for the normal work plan status. This Supplemental Grant Funds Progress Activity Report will update the status of the redirection activities.

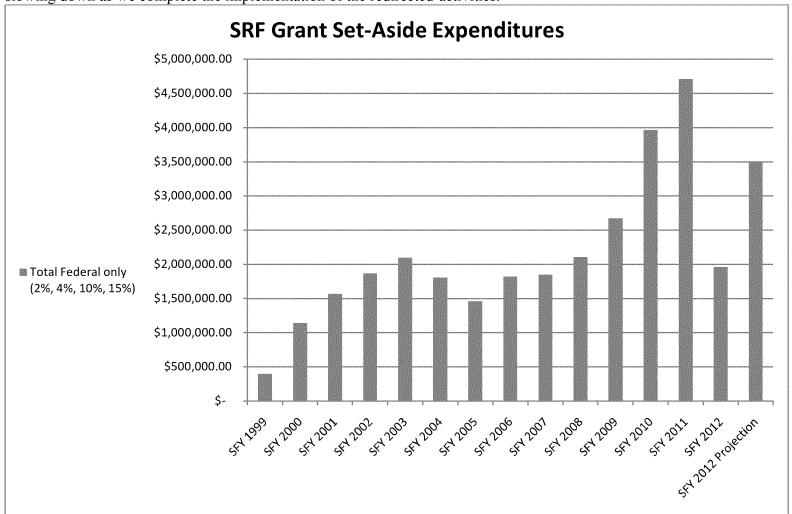
These funds became available due to vacancies, frozen salaries, and under runs in other budget items from vacancies. The Supplemental Work Plan will be used to further implement programs such as capacity development assessments for most, if not all, community water systems throughout the state. Grants will be provided to water systems for planning projects, developing needs assessments, construction design to close loans quicker, and source water protection. Contractors will be used to develop mapping for water systems, training courses and certification program for water system management staff, water distribution operator, and chief operator.

This Progress Report will address those one time supplemental grant activities approved by EPA in May 2007. During the April 2007 EPA site visit, it was decided to withdraw the unexpended grant funds in the 4% set-aside since they were not to be included in the tracking of available set-aside funds. However, in 2011, it was decided to use some of the unexpended 4% set-aside to fund a second round of planning and evaluation grants. These additional grants will be included in the original planning and evaluation grant activity description. None of the 2% set-aside was to be used since there is very little balance left over at the end of each fiscal year. Since the funding of the supplemental grant activities cross into both the 10% and 15% set-asides, each activity will be addressed and the financial status for each set-aside will follow at the end of this report. Any significant uncommitted funds will be redirected into different areas and will be requested in the next grant application.

Significant progress in expenditures has been made for the last four reporting periods. The table below summarizes the progress made on commitments, obligations, and disbursements for redirected activities. The supplemental activities have resulted in total commitments of \$6,170,308; total obligated (contract or grant agreement) amount of \$6,008,308; and a total disbursement amount of \$4,848,257 through December 2011. Obligated (under contract or grant agreement) funds not yet expended total \$1,160,051.

Balances as of 12-31-2011	Budget	 				Cumulative			Ob	ligated money
	Amount	 *Committed	3	**Obligated	[Disbursements	**	*Uncommited		Jnexpended
Activity F/15% Preliminary Evaluation & Design Grants	\$ 2,018,623.98	\$ 2,018,623.98	\$	2,018,623.98	\$	(1,660,617.85)	\$	_	\$	358,006.13
Activity A/15% & Activity B/10% Capacity Development Technical Assistance	\$ 345,040.00	\$ 345,040.00	\$	345,040.00	\$	(196,706.00)	\$	-	\$	148,334.00
Activity A/15% & Activity B/10% Lab Equipment	\$ 496,807.36	\$ 496,807.36	\$	401,807.36	\$	(218,321.26)	\$	-	\$	183,486.10
Activity K/15% & Activity L10% Source Water Technical Assistance	\$ 1,244,624.00	\$ 1,244,624.00	\$	1,244,624.00	\$	(913,910.75)	\$	-	\$	330,713.25
Activity B15% & Activity C10% GIS Mapping (GPS) Grants	\$ 669,077.57	\$ 669,077.57	\$	669,077.57	\$	(544,301.17)	\$	-	\$	124,776.40
Activity C15% & Activity D10% AWOP Studies/Distribution Optimization	\$ 177,176.00	\$ 177,176.00	\$	134,176.00	\$	(134,176.00)	\$	-	\$	-
Activity E/10% Source Water Security Enhancements Grants	\$ 200,000.00	\$ 149,847.36	\$	132,847.36	\$	(132,847.36)	\$	50,152.64	\$	-
Activity E15% & F10% Source Water Protection Mini Grants	\$ 765,200.00	\$ 738,297.33	\$	731,297.33	\$	(716,562.33)	\$	26,902.67	\$	14,735.00
Activity D15% WV Utility Management Institute	\$ 197,709.00	\$ 197,709.00	\$	197,709.00	\$	(197,709.00)	\$	-	\$	-
Activity G10% Operator Certification	\$ 133,105.00	\$ 133,105.00	\$	133,105.00	\$	(133,105.00)	\$	-	\$	-
	\$ 6,247,362.91	\$ 6,170,307.60	\$	6,008,307.60	\$	(4,848,256.72)	\$	77,055.31	\$	1,160,050.88

The SRF Grant Set-Aside Expenditure chart shows the dramatic increase in spending as a result of the redirected activities since the 2007 year. At SFY mid-2012 we have expended nearly half of the forecast for the year. The redirected spending is slowing down as we complete the implementation of the redirected activities.



I. Activity F (15%): Preliminary Evaluation, Planning, and Project Design Grants

- **II. Activity F (15%) Description**: This activity will provide grant funds to small water systems to determine their needs and expedite projects to the construction phase. This activity will offer technical assistance grants to private and public community water systems for system assessment to:
 - Perform source water quantity and quality studies.
 - Drill exploratory wells determining source feasibility.
 - Test system water loss.
 - Perform other studies as needed.
 - Identify compliance issues via feasibility studies.
 - Develop preliminary engineering reports for funding applications.
 - Prepare design plans and specifications.
 - Conduct income surveys.

III. Outcomes/Benefits:

No.	Planned Outcomes	Outcome Status
1.	Projects funded and constructed more rapidly.	Preliminary engineering reports and funding of designs will enable water systems to implement projects faster.
2.	Water systems returned to compliance.	Returning systems to compliance is a factor in determining the priority of the systems for grant funds.
3.	Water systems avoid future non-compliance.	These grant funds will enable water systems to be eligible for projects to meet future regulations.
4.	Water systems' source and infrastructure needs better understood.	The grant funds will help water systems understand their needs by performing studies of their facilities.

- IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.
- **V. Resources:** The current activity will be completed by the end of SFY 2012 and will use \$358,006 from the 15% set-aside unexpended funds over the next year period. To-date this activity has disbursed \$1,660,618.

Another preliminary planning and evaluation grant program is underway and will be completed by the end of SFY 2013. Fifteen grantees have been selected and will be awarded a total of \$536,000 from the 4% set-aside.

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	All grants used effectively.	All grants will be for eligible projects and oversight provided by OEHS.
2.	Completed evaluation reports used for subsequent projects.	Completed reports will be required for each project and will be used for subsequent construction projects.
3.	Preliminary engineering reports completed for funding applications.	Preliminary engineering reports will be used for submitting IJDC funding applications for construction projects.
4.	Design plans and specifications completed, expediting project funding and construction.	Grant funds used for completion of design plans and specifications will aid in moving projects to construction quickly.
5.	Completed income surveys demonstrate disadvantaged status.	Grants for income surveys will have to provide legitimate reasons why the income survey should be justified prior to awarding the grant.

Progress Report of Supplemental Grant Funds Workplan: Sixteen of the selected grantees, representing \$1,660,618 have completed the requirements of their sub-recipient agreements. The three remaining grantees have expended \$193,824 of \$550,000 awarded for these three grants. All requirements for these three grants will be completed by the end of SFY 2012. The table below shows the expenditures of the grantees and the percent complete.

Summary of Planning and Design Grants

Grantee Name	Amount of Grant	Expenditure	Percent Complete
Oakvale Road PSD	\$200,000	\$200,000.00	100
City of Piedmont	\$40,000	\$40,000.00	100

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Jefferson Utilities	\$200,000	\$200,000.00	100			
New Haven PSD	\$94,750	\$89,360.50	100*			
City of Cameron	\$68,000	\$68,000.00	100			
Gilmer County PSD	\$30,000	\$30,000.00	100			
Oakland PSD	\$192,000	\$192,000.00	100			
Webster County	\$18,000	\$17,994.09	100*			
Webster Co. Countywide Study	\$55,000	\$55,000.00	100			
McDowell County PSD	\$90,000	\$90,000.00	100			
Southern Jackson County PSD	\$49,500	\$36,526.59	100*			
Mineral County	\$92,990	\$92,990.00	100			
Sugar Creek PSD	\$200,000	\$115,095.12	58			
Town of Fairview	\$200,000	\$175,252.80	100*			
Nettie-Leivasy PSD	\$200,000	\$69,031.08	35			
City of Stonewood	\$35,000	\$35,000.00	100			
Cowen PSD	\$78,500	\$78,500.00	100			
Page-Kincaid PSD	\$150,000	\$9,697.67	6			
Town of Matoaka	\$68,000	\$66,170.00	100*			
Total =	\$2,061,740	\$1,660,617.85				
	* Grant requirements were completed for less than the amount of the grant.					

Fifteen grantees have been selected and will be awarded a total of \$536,000. Each grantee has been contacted to submit information in order to develop the sub-recipient grant agreements; two grantees have completed their applications and five grantees have submitted preliminary information. The table below lists the grantee name and amount of the award.

Summary of Preliminary Evaluation and Planning Grants

Grantee Name	Amount of Grant
Fort Gay Water Works	\$50,000
Town of Pocahontas	\$50,000
Wetzel County PSD #1	\$15,000

Town of Chapmanville Water and Sewer Department	\$45,000
Frankfort PSD	\$25,000
Denver Water Association	\$21,000
Town of Union Water System	\$50,000
Town of Mill Creek	\$20,000
City of Sistersville	\$40,000
Page-Kincaid PSD	\$50,000
Town of Carpendale	\$10,000
City of McMechen	\$25,000
Weirton Area Water System	\$50,000
Town of Grant Town	\$35,000
Town of Alderson	\$50,000
Total =	\$536,000

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): The current Preliminary Evaluation, Planning, and Project Design Grant program is nearing completion. This program has disbursed \$1,660,618 to-date for this activity. A second Preliminary Evaluation and Planning grant program is underway that will provide \$536,000 to fifteen grantees.

I. Activity B (10%) & A (15%): Capacity Development Assistance Program

II. Activity B (10%) & A (15%) Description: This activity will be a standalone project separated from the Source Water Assessment and Protection project. This activity will help water systems achieve technical, managerial, and financial (TMF) capacity. This activity will identify public water systems (PWS) lacking TMF capacity and coordinate assistance.

A contractor will be procured to:

- Develop a survey tool to assess TMF.
- Complete an on-site survey of all Community Water Systems using the Capacity Development Program (CDP) questionnaire.
- Submit survey results to CDP staff.
- Identify PWSs needing TMF assistance and willing to work with the contractor. Examples include management policies, procedures, plans, budgets, financial planning, and security plans.

III. Outcomes/Benefits:

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No.	Planned Outcomes	Outcome Status
1.	BPH has comprehensive knowledge of PWSs' TMF capacity.	Contractor completed the development of the information tool on October 31, 2009. Contractor secured in mid-June 2011. Contractor met with BPH in late June and early July.
2.	Water systems have necessary written plans and procedures.	Contractor began on-site surveys of community water systems in September. 64 surveys have been completed by December 31, 2011.
3.	Improved TMF capacity results in viable systems.	Contractor has been supplied with tools and resources to provide to water systems while conducting onsite surveys. Systems needs that still need to be met are communicated to the CapDev staff as part of a monthly activity report from the contractor. These needs are communicated to the CapDev staff at routine staff meetings. TMF improvements are expected to take some time to implement once the surveys are completed.
4.	Viable systems improved public health protection.	This long term goal will not be immediately measured or realized. Following the current schedule of system viability

	scores every 3 years, the next report of viability of systems
	will occur in 2014.

- IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.
- **V. Resources:** This activity is planned to use \$44,000 from the 10% set-aside and an additional \$104,334 from the 15% set-aside unexpended funds. The total planned for this activity for the next year is \$148,334 from both set-asides.

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	Capacity Development Survey Tool completed	Contractor completed the development of the information tool on October 31, 2009. A separate contractor was secured in mid-June 2011 to conduct the surveys with water systems.
2.	Capacity Development Program surveys completed.	Contractor began on-site surveys of community water systems in September. 64 on-site surveys were completed between September and December 31, 2011
3.	A list of PWSs needing TMF assistance developed.	Contractor has been supplied with tools and resources to provide to water systems while conducting onsite surveys. The contractor provides to BPH a list of PWSs each month, the survey results, and any notes of special needs identified on-site. These needs are communicated to the CapDev staff at routine staff meetings.
4.	Assistance provided to receptive PWSs.	Contractor has been supplied with tools and resources to provide to water systems while conducting on-site surveys. The contractor will provide to BPH a list of PWSs each month, the survey results, and any notes of special needs identified on-site. These needs are communicated to the CapDev staff at routine staff meetings.

Progress Report of Supplemental Grant Funds Workplan: OEHS has executed a grant agreement with the West Virginia University National Environmental Services Center (WVU-NESC) in September 2008 to develop a survey tool in the amount of

\$194,040 over a one-year period. A two-month no cost extension was approved for the contract with the work to be completed by October 31, 2009. The survey tool was completed on October 31, 2009.

OEHS began developing the second phase of the project which uses the tool in the field at water systems throughout the state. A Request for Quote (RFQ) was prepared in order to seek a qualified vendor for the second phase. The RFQ approval process was significantly delayed in reviews that occurred in the State's Technology and Purchasing programs. In June 2011 a vendor was selected and a contract secured. Following the contract award, the contractor met with BPH staff on two occasions with tools and resources being provided to the contractor. Work has begun, with 64 on-site surveys having been accomplished, that will:

- Identify water systems lacking technical, managerial, and financial (TMF) capacity
- Teach water systems the impacts of and corrective measures for inadequate TMF capacity
- Identify water systems willing to work with the contractor and correct identified TMF capacity problems.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): The grant agreement was in place in September 2008. WVU-NESC completed the work survey tool on October 31, 2009. The Request for Quote (RFQ) has been delayed due to reviews from the Information Technology and Purchasing groups with the state government for this reporting period. A vendor was chosen and a contract secured in June 2011. \$196,706 has been disbursed to-date for this activity. The vendor is currently conducting contract work which is expected to continue over the next two years to completion.

I. Activity L (10%) & K (15%): Source Water Assistance Program

II. Activity L (10%) & K (15%) Description: This activity will implement wellhead and source water protection activities associated with the WV Source Water Assessment and Protection (SWAP) program. A contractor will provide management and technical assistance to communities, helping develop, update and implement source water protection plans. OEHS will assign project areas or individual PWS systems to contractor(s). The contract work will focus on community water systems (CWS), especially small CWSs.

The Contractor will:

- Revise the potential contaminant inventory as needed.
- Determine appropriate source water protection measures on a local basis.
- Develop system specific management and contingency plans.

- Identify projects that PWSs can accomplish.
- Provide PWS system assistance.

III. Outcomes/Benefits:

No.	Planned Outcomes	Outcome Status
1.	Local educational efforts increased source water protection.	Source Water Protection assessments have been completed on 113 community systems to promote local educational efforts.
2.	Local communities increased involvement in source water protection efforts and measures.	Source Water Protection assessments have been completed on 113 community systems to increase involvement in water protection efforts.
3.	Community source water protection efforts and measures improved.	Source Water Protection assessments have been completed on 113 community systems improving community source water protection efforts.
4.	Guidance documents support additional local efforts.	Source Water Protection assessments have been completed on 113 community systems developing the local source water protection plan.

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: This activity is planned to use \$1,244,624 from the 10% set-aside unexpended funds. \$913,911 has been disbursed to-date for this activity. The remaining unexpended amount is \$330,713 from the 10% set-aside.

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	Wellhead protection activities implemented.	Assessments have been completed on 113 community systems.
2.	Local efforts created enhanced protection plans.	Assessments have been completed on 113 community systems providing local enhanced protection plans.

3.	Standardized plans were accessible to interested parties.	Assessments have been completed on 113 community system providing accessible standardized plans to interested parties.
4.	SWAP and WHP plans approved.	SWAP and WHP plans approved for 113 community systems.
5.	Initial and updated source water reports issued.	Assessments have been completed and issued on 113 community systems.
6.	Local source water protection plans and educational brochures developed.	Assessments have been completed on 113 community systems with plans and educational brochures developed.
7.	Protection activities implemented.	Assessments have been completed on 113 community systems with protection activities implemented.
8.	System specific contingency and management plans prepared.	Assessments have been completed on 113 community systems with system specific contingency and management plans prepared.
9.	A finalized PWS management guidance document is available for local use.	Guidance document for PWS management plans has been developed
10.	A finalized PWS contingency guidance document is available for local use.	Guidance document for PWS contingency plans has been developed

Progress Report of Supplemental Grant Funds Workplan: Source Water Protection Technical Help Program (SWPTHP) - The proposed contract requires a consulting engineer firm to work with drinking water systems across the state (initially within the St. Albans and the Wheeling District Offices) for the purpose of developing and implementing the components of a local Source Water Protection (SWP) program. Local SWP efforts not only protect public health and safety by preventing drinking water contamination but they can also help avoid the need for costly treatment, increased monitoring and remediation of contaminated drinking water sources.

WV State purchasing has approved the contract for the Wheeling and St. Albans Districts SWPTHP program with Potesta, Inc. on March 29, 2009, in the amount of \$453,000. It is anticipated that up to 60 (28 ground water and 32 surface water) community water systems will be assisted during the contract period.

WV State purchasing has approved the contracts for the Beckley, Philippi and Kearneysville Districts SWPTHP program with Tetra Tech on September 15, 2009, in the amount of \$791,624. It is anticipated that up to 106 (32 ground water and 74 surface water)

community water systems will be assisted during the contract period.

Protection plans (management and contingency reports) have been completed for 113 community public water supply systems with the remaining 53 contracted systems nearing completion.

SWAP program will award and monitor contract work activities.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): No variance or deviation from plans required at this time. Vendor's purchase order for the Wheeling and St. Albans Districts SWPTHP program was approved on March 29, 2009, and has been renewed until March 29, 2012. Vendor's purchase order for the Beckley, Philippi and Kearneysville Districts SWPTHP program was approved September 15, 2009, and has been renewed until September 15, 2012. \$913,911 has been disbursed to-date for this activity with \$330,713 unexpended obligated money. Total planned for this activity is \$1,244,624.

I. Activity C (10%) & B (15%): Geographic Information System Mapping

II. Activity C (10%) & B (15%) Description: This activity will create a pilot Global Position System (GPS)/field measurement water system infrastructure inventory within the southern WV Region I Planning & Development Council (Region I) areas. It will acquire asset inventory for municipalities and public service districts (PSDs) within Region I.

A contractor will:

- Initiate a GPS asset inventory pilot program for a minimum of six systems. System size and complexity will vary.
- Estimate project cost for completing remaining Region I systems.
- Use GPS equipment/field observations to inventory water system infrastructure locations (e.g., hydrants, pump stations, and valves).
- Input feature attributes (e.g., manufacturer, installation dates, and maintenance history) into GPS receiver/field notes.
- Maintain secure data copy.
- Issue a project summary report.

The contractor will build a pilot Region I Geographic Information System (GIS) mapping for participating public water systems. The contractor will establish a GIS database for system analysis, maintenance planning, and repair facilitation. This GIS system will:

- Incorporate GPS/field measurement data into computerized mapping (GIS) program.
- Incorporate previously established Computer Aided Drafting and Design (CADD) mapping into GIS program.
- Digitize system features not feasibly mapped by GPS inventory (e.g., lines).
- Connect distribution and branch lines to hydrants, valves, and pump stations, etc. using GIS.
- Assign system attributes (e.g., line diameter, line material, flow direction, flow rates, installation dates, photographs, and schematics) to features using GIS program's inherent database compilation capabilities.

This activity will provide water system GIS data analyses that will provide assistance and location materials increasing system viability.

The GIS system will:

- Provide water system administrator with GPS and GIS datasets.
- Provide water system administrator with GIS data "viewer".
- Provide GIS data to other interested parties.

III. Outcomes/Benefits:

No.	Planned Outcomes	Outcome Status
1.	Municipalities/PSDs have accurate, geo-referenced inventory used for asset inventory and maintenance.	Municipalities will have accurate, geo-referenced inventory of assets.
2.	State and Federal agencies (if applicable) have inventory for use analyzing system assets and infrastructure efficiency.	OEHS will have access to the inventories generated from this activity to aid in analyzing system assets and infrastructure.
3.	Personnel provided information locating assets for emergency repairs and routine maintenance.	Water systems will have easy access maps and inventory lists to aid in repairs/maintenance.
4.	System administrators provided quality mapping suitable for system planning and other tasks.	Water systems will have updated maps of their facilities to aid in future planning and upgrading.
5.	Governmental agencies and others have access to water system mapping information.	OEHS will have access to the water system mapping information generated from this activity.

6.	Water systems have a more accurate asset inventory.	Water systems will have an accurate asset inventory for improved capital planning.
7.	Water system LtD data protected	The GIS data will be protected from outside sources to protect public health.

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: This activity has disbursed \$544,301 through this fiscal year. This activity is planned to use an additional \$124,776 from the 15% set-aside unexpended funds. The total planned for this activity is \$669,077 from the 15% set-aside.

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	Municipalities/PSDs (as well as State officials, upon request) are provided current, geo-referenced digital and hardcopy asset inventory.	Digital and hardcopy asset inventories will be required as a condition of final invoice payment.
2.	Project summary report completed.	A project summary report will be required for each water system participating in this activity.
3.	Detailed geo-referenced system mapping incorporating high-resolution color aerial photography is completed and available in digital and hardcopy formats.	Detailed geo-referenced mapping using high-resolution color aerial photography will be available in digital and hardcopy formats.
4.	Detailed database files (integrated into GIS data) are suitable for analysis by other GIS users.	The database files will be standardized and suitable for use by other GIS users.
5.	Detailed digital data uploaded into GIS-capable GPS receivers.	The digital data will be uploaded into GIS-capable GPS receivers.
6.	System administrators provided with GIS viewer and GIS/GPS data.	System administrators will be provided with GIS viewer and GIS/GPS data.

		Water systems will have the ability to view data and do analysis,
7.	Data viewed and analyzed, but not altered.	but will not be able to alter the maps and data without revisions
		provided by Region 1.

Progress Report of Supplemental Grant Funds Workplan:

Region 1 progress is listed in the table below.

No.	Water System	Output Status
1.	Raleigh County PSD	GIS Mapping completed in April 2010.
2.	Raleigh County PSD (Drews Creek Addition)	GIS Mapping completed in July 2010.
3.	Bluewell PSD	GIS Mapping completed in December 2010.
4.	Big Bend PSD	GIS Mapping completed in December 2010.
5.	Town of Athens	GIS Mapping completed in August 2010.
6.	Ravenscliff-McGraw-Saulsville PSD	GIS Mapping has been postponed due to insufficient water system staff time to participate in mapping activity.
7.	City of Welch	GIS Mapping completed in November 2010.
8.	Town of Iaeger	GIS Mapping completed in December 2010.
9.	Town of Oceana	GIS Mapping completed in February 2011.
10.	Town of Union	GIS Mapping completed in April 2011.
11.	Eastern Wyoming PSD (Itman & Bud Mountain area)	GIS Mapping completed in March 2011.

12.	Town of Athens	GIS Mapping completed in March 2011.
13.	Kopperstown CWS	GIS Mapping completed in June 2011.
14.	Gap Mills CWS	GIS Mapping is nearly completed.
15.	Green Valley-Glenwood PSD	GIS Mapping completed in October 2011.
16.	Glen Rogers PSD	GIS Mapping started in December 2011.
17.	McDowell County PSD (Phase 2 of the Coalwood Connector)	GIS Mapping completed in December 2011.
18.	McDowell County PSD (Phase 3 of the Coalwood Connector)	GIS Mapping planned to start in January 2012.
19.	Cool Ridge/Flat Top PSD	GIS Mapping completed in December 2011

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs):

To-date Region 1 has submitted invoices totaling \$544,301. The fourth year agreement will be awarded in January for an additional \$100,000. \$124,776 is the remaining amount of redirected funds budgeted for this activity. We have grant agreements in place above the original plan of using \$399,000 from the set-asides.

I. Activity D (10%) & C (15%): Area Wide Optimization Program Performance Based Training

II. Activity D (10%) Description: This activity implements Performance Based Training (PBT) within the EPA's Region III Area Wide Optimization Program (AWOP) guidelines during five training sessions over a fifteen-month period. A contractor will remain engaged to help co-present public water system operators material to optimize their treatment plant (microbial) and distribution system performance (DBP series). WV is involved in two separate PBT series: (1) The 2nd microbial series with the assistance of an

approved EPA sub-contractor using an "in-kind" agreement; and (2) the EPA R3 Disinfection By-Product Train-the-Trainer Pilot. Both series are anticipated to run from late 2011 thru 2013.

Contractor activities are:

- Participation of water system management/owners and water system operators in the AWOP/mPBT program.
- Conduct water system operator training.
- Expose operators to "special studies" in water plant treatment processes and/or distribution operations.
- Engage OEHS field representatives to facilitate the PBT activities with water operators.

Activities associated with the "DBP" series include facilitator training completed earlier in 2011; and session 1 and 2 planned August 24 and December 1, 2011. Relevant materials include:

- Participation of agency staff in the Regional EPA R3 AWOP "Train-the-Trainer" meetings regarding the DBP-PBT series involving five state drinking water programs and 18 Water Treatment Plants.
- Conduct water system operator training between the EPA R3 meetings.
- Expose and support operators to "special studies" in water plant treatment processes and/or distribution operations.
- Engage OEHS field representatives to facilitate the PBT activities with water operators.

III. Outcomes/Benefits:

No.	Planned Outcomes	Outcome Status
1.	EPA recognizes PBT-trained operators are better equipped to achieve optimized plant performance goals in their daily activities. Operators are becoming pro-active in finding solutions to water quality issues.	Five "Microbial" PBT training sessions & follow-up sessions were completed in spring 2011. Operators to date have continued to use lessons learned during the PBT sessions. A network with each other and the facilitators has been established. Pro-active problem solving activities are encouraged. Changes made in operations with facilities were based on lessons learned during the PBT sessions. These pro-active changes are different to normal operations, which are typically reactive. One additional "Microbial" PBT training event and two additional "DBP" training events have been completed for the current round of participants in 2011 and 2012.
2.	Meeting optimized water treatment plant	Five PBT training sessions have been completed in the first round of
	performance goals long term result in	systems and one event has been completed to date for the second round of

	reduced particle numbers/potential	systems. Sessions have enhanced water operator problem solving skills,	
	contaminants, and a lower microbial public	priority setting, and leadership abilities. Involved systems have all adopted	
	health risk	reduced turbidity goals and have continued to seek plant optimization.	
		Involved systems overall have at least seen some improvement in overall	
		performance and continue to seek improved performance.	
		One year of baseline data prior to training was reported. Data is being	
	Graphically show improvement trends by	collected on excel software and continues to be collected at many of the	
3.	plotting raw/settled/finished water daily trends prior, during and after 15 month training period	participating systems involved in the first five PBT sessions. Systems in the	
		second round event are also collecting the same data. Operators are exposed	
		to the significance of collecting additional data and many have continued to	
		collect and use the data since the final session.	
		WV-BPH-OEHS-EED's yearly microbial "Public Health Risk" status	
	Public Health protection increases with	component (used since 2004) will be used to access improvement each	
4.	improved operator skills and water system	March. The facilitators involved during the PBT sessions continue to serve	
	performance.	as a resource for the systems involved. Rankings are integrated with a PWS	
		and Operator award program.	
	Enhances West Virginia DW program field	State DW staff has improved understanding of water treatment and gained	
5.	staff abilities and integrates with other DW	confidence in normal work. The facilitators have better working	
	program areas.	relationships with the PWSs involved through the PBT event.	

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: This activity has used \$134,176 from the 10% set-aside unexpended funds as a contract through EPA as in-kind work. This activity will use \$43,000 additional funds from the 10% set-aside for OEHS program work.

Future planned expenditures for (Item #1): PBTm#2 is \$88,600 from an anticipated "in-kind" agreement from the new grant application for this year. (Item #2): EPA Region 3 "Train-The-Trainer" DBP-PBT lab equipment support: \$57,279 (Hach & CEC

vendors) and "special study" certified laboratory support: \$27,000 to \$54,600 range based on amount of compliance monitoring used in, and duration of, "special studies." The WV state laboratory may do the laboratory support at no cost possibly.

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	Water system operators will have enhanced training including mentoring during WV-PBTm#2	Six PBT training sessions will be completed between 11/1/11 and 2013. (11/1&2/11 facilitator Training, S#1 12/6/11, S#2 1/24/12, S#3 4/10/12, S#4 7/10/12, S#5 & S#6 TBA). The agency facilitators and participating plant operations staff involved in the PBT sessions are a resource for the systems involved. (\$88.6 k total)
2.	Water system operators will have access to enhanced training including mentoring during WV-DBP-PBT series #1	Six PBT training sessions are scheduled between 8/2011 and 2013. (S#1 8/24/11, S#2 11/30/11, S#3 3/21/12, S#4 7/25,12, S#5 10/17/12, S#6 TBA). The skill set is a S2D/DBP Rule compliance resource. Four PWSs will participate formally; two PWSs will participate informally due to distance issues. The EPA R3 AWOP "Train-the-Trainer" series is planned activity through 2013 including 18 WTPs in five states. (\$84.2 k to \$ 111.9 k)
3.	Evaluation of water treatment plants for finished water quality improvements.	WV-BPH-OEHS-EED's yearly microbial "Public Health Risk" status component (used since 2004) is updated each March and circulated in-house and with the EPA-Region 3 Area Wide Optimization Program quarterly meetings (cost integrated as part of regular DW program activities).

4.	Participation in EPA Region #3 AWOP meetings/train-the-trainer DBP-PBT series	Travel for Three WV-OEHS-EED employees involved in attending the R3 "Train-the-Trainer" DBP-PBT series rotated between states on 10/18&19/11 S#2 Prep Gettysburg PA, 4/13&14/2012 S#3 prep. Culpepper, VA, 7/17&18/2012 S#4 prep in Phila., PA, S#5 prep 9/9&10/2012 Martinsburg WV, S#6prep TBA) five meetings at \$450/employee x 3 employees = (\$6,750 thru 2013)
5.	Combination of WV's Monthly Operational Report (MOR) and EPA's Turb-OPT excel spreadsheets in a digital format to be submitted on a state secured drive together with all MORs	In planning stages including finding list of qualified venders, sharing WV-sister-agency secure portal. Cost: unknown (\$50k - \$150 k range)

Progress Report of Supplemental Grant Funds Workplan:

OEHS received approval March 19, 2009, from EPA regarding the revised grant application for in-kind work for the AWOP activity. The procurement order specifics included \$134,176 for "Implementation of PBT in WV per Work Assignment No. 4-02 Contract No. EP-C-05-11 Task 10, In-Kind FS-99390006. The initial PBT proposed "scope of work" was completed as of this reporting period.

Another PBT activity will start with the new grant in-kind services. Future reporting of the new activity may be included in the PWSS semi-annual reports versus this progress activity report.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs):

No disbursements to date on this activity. A second round of PBT microbial #2 training (\$88,600 quote) and the EPA Region 3 "Train-the-Trainer" DBP-PBT series (\$57,279.33 equipment & \$27,000 to \$54,600 additional certified lab costs) are being pursued to use the remaining redirected funds unless the WV state laboratory performs the laboratory support on their budget.

I. Activity E (10%): Source Water Security Enhancements Grants

II. Activity E (10%) Description: This activity will improve PWSs source water security using grant funding. It will offer grants to install security features such as:

- Fencing.
- Cameras.
- Lights.
- Alarm systems.
- Install raw water contaminant detection equipment.

III. Outcome/Benefit:

No.	Planned Outcomes	Outcome Status
1.	Public health protected with improved source water security.	See schedules and output section.

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: This activity is planned to use \$200,000 from the 10% set-aside. As of December 31, 2011, \$132,848 has been expended. The remaining redirected funds balance is \$67,152. (This includes \$17,000 pending commitment)

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	Water systems facilities will have increased source water security.	 2008 Sub-recipient Grants Clarksburg Water Board has completed a \$16,555 project to install a fence and camera system to provide security at their surface water intake. City of Fairmont has completed a \$47,575 project to install a fence to secure the raw water reservoir and a raw water intake on a second body of water.

3. City of Hurricane has completed a \$9,105 project to install a fence to secure their raw water reservoir. 2009 Sub-recipient Grants The following PWSs have been selected to enter into a sub-recipient grant award process and in some cases have been formally
awarded the funding. The amounts listed are subject to change as PWSs adhere to procurement requirements and receive final bids.
Grant awards will be based on these bids.
1. Alpine Lake Public Utilities Company has completed a \$2,633 project to install security fence for protection of well #1 from vehicles using gasoline and diesel fuel immediately across the
access road.
2. Glen Dale Water Works has completed a \$10,156 project to secure existing well house with fencing and 24-hour surveillance equipment.
3. Lubeck Public Service District has completed a \$10,164 project to install new fencing around two water wells.
4. Hundred Littleton Public Service District has been awarded \$45,000 to install security fencing at 10 separate well sites.
The project is complete and \$ 36,660 was spent. 5. Mason County Public Service District has applied for \$20,000 to install fencing and signage at well fields around the county.
Project determined not to be viable at this time for grant funding, project withdrawn by Mason County PSD.
6. Armstrong Public Service District has applied for a \$17,067
project to provide security surveillance of two different raw water intakes and buildings (pump stations). Cameras will
cover intakes and entrances to river intakes. Project determined not to be viable at this time for grant funding, project

withdrawn by Armstrong PSD.

7. Town of Rowlesburg has applied for \$12,029 to provide

		fencing, surveillance and alarms to protect source water.
2.	All funds used effectively.	Grant funds will be provided for eligible projects to improve their security.

Progress Report of Supplemental Grant Funds Workplan: The Wellhead Protection and Source Water Protection Grant Programs were designed to offer security project grant opportunities. Grantees from these programs have been selected to receive and/or awarded funds provided for in Activity E (10%) Source Water Security Enhancement Grants.

A total of seven security contracts have been completed from 2007 - 2010 at a cost of \$132,847 and the \$17,000 commitment pending. The remaining funds (\$50,153), not previously committed will be utilized in the 2012 Source Water Security Enhancement Grants.

Additional PWSs have been selected to receive and/or awarded sub-recipient grants through the Wellhead Protection and Source Water Protection Grant Programs as described in Activities F (10%) and E (15%).

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): No variance or deviation from plans required. Grant Program scheduling and planning for 2011 was delayed due to a staff reduction. Staffing has been hired and scheduling and planning for the 2012 Grant Program provided funds will soon be available. Remaining funds (\$50,153) will be utilized in the 2012 grant program.

I. Activity F (10%) & E (15%): Source Water Protection (Mini) Grants

II. Activity F (10%) & E (15%) Description: This activity will implement source water protection activities associated with the Source Water Assessment and Protection (SWAP) program. It will provide grants to community public water supply (PWS) groundwater systems establishing and implementing wellhead protection programs.

The activity will:

- Establish and develop wellhead protection activities protecting groundwater sources.
- Establish formal sub-recipient agreement with grantee, including scope of work and standards.
- Refine the wellhead protection delineations using site-specific information.

- Expand the inventory of existing and potential point and non-point contamination source.
- Initiate wellhead protection management or planning.
- Enhance wellhead protection program at the local level.

The activity will also provide grants to surface water community PWS, assisting them to establish and implement source water protection programs.

This activity will:

- Establish and develop surface source water protection.
- Establish formal sub-recipient agreement with grantee, including scope of work and standards.
- Establish inter-agency agreement promoting and implementing watershed source protection benefiting community systems.
- Refine the watershed protection using site-specific information.
- Expand the inventory of existing and potential point and non-point contamination sources.
- Initiate source water protection management or planning.
- Enhance source water protection program at the local level.

This activity will also assess and characterize the hydro geologic setting of water in flooded, abandoned underground coal mines, primarily in southern WV to help determine wellhead protection delineations. It will determine water flow paths and recharge rates into abandoned coal mines from overlying strata. Develop a flow model, accounting for fractured bedrock and mine voids; applicable to other flooded, abandoned, underground mines to help determine wellhead protection delineations.

It will:

- Develop a multi-year joint funding agreement with the USGS.
- Collaborate with other cooperating agencies in funding USGS.
- Select one or more suitable mines, preferably a PWS water source.
- Install monitoring wells.
- Conduct borehole geophysics identifying strata physical properties.
- Collect and analyze ground water samples.
- · Conduct a ground water recharge investigation including flow through a flooded abandoned coal mine.
- Characterize overlying strata hydraulic properties.
- Create fractured bedrock aquifer conceptual groundwater flow model for flooded, abandoned, underground coal mines.

III. Outcomes/Benefits:

No	Planned Outcomes	Outcome Status
1.	Communities' source water protection efforts and measures improved.	See Schedules and Major Outputs below.
2.	The fractured bedrock aquifer conceptual ground water flow model created.	Contract signed and is currently being implemented.
3.	A water accumulation and movement model developed for flooded abandoned coal mines.	Contract signed and is currently being implemented.
4.	Aquifer properties and characteristics database significantly revised to include data representing the southern West Virginia mining region.	Contract signed and is currently being implemented.
5.	A comprehensive report applicable to comparable geologic settings is available.	Contract signed and is currently being implemented.
6.	Knowledge obtained increased source water protection activities for PWSs utilizing abandoned mine water.	Contract signed and is currently being implemented.
7.	Water systems' source and infrastructure needs better understood.	See Schedules and Major Outputs below.

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: This activity is planned to use \$565,200 from the 10% set-aside and an additional \$200,000 from the 15% set-aside funds. The total planned for this activity is \$765,200 from both set-asides. As of December 31, 2011, \$716,562 has been expended to-date. The remaining redirected fund balance is \$48,638 (unexpended or pending contracts).

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	Wellhead protection activities implemented.	 2007 Sub-recipient Grants Three PWSs were awarded and completed for a total of \$35,383. Funding for these awards was allocated in Activity E (15%). These systems included: Oakland PSD completed a security project to add surveillance and fencing to well field; Town of Union establish a Source Water Protection Plan, including protection area delineation, establishing a foundation for source water ordinances, design standards, incentive programs to protect source water in an area experiencing population growth. Town of Bath has completed an assessment of the hydro geologic conditions of the Cacapon Mountain aquifer and drafted an application for the EPA Sole Source Aquifer Designation. 2008 Sub-recipient Grants Alpine PWS were awarded a total of \$94,865. Funding for these awards were allocated in Activity E (15%) These systems included:

- 4. Village of Beech Bottom has completed a \$4,856 project to install a security system and drinking water protection signs along the major highway within their wellhead protection area.
- 5. City of Wellsburg Water Board has completed a \$10,620 project to install a security system, wellfield illumination, and drinking water protection signs along the major highway within their wellhead protection area
- 6. Preston County Public Service District #4 has completed a \$26,553 project to install a fence to protect wellheads and electrical control panels from vandalism or contamination. In addition to physical security, Preston County Public Service District #4 installed pressure transducers in their wells to analyze the aquifer to prepare to produce adequate water quantities to facilitate future growth in the area.
- 7. Red Sulphur Public Service District has completed a \$13,122 project to develop land use policies and practices that will protect source water resources. This project is part of an ongoing county-wide source water protection plan.
- 8. New Cumberland Water/Sewage Board has completed a \$6,836 project to install a fence and camera system to provide security at their wellheads.
- 9. Franklin completed a \$5,664 project to establish a monitoring station to allow for non-compliance sample analysis of their raw water to identify potential contaminants of concern from nearby PCS.

Funds were originally allocated to provide for wellhead protection planning at the City of Sistersville. However, this system did not develop the source, thus these funds will be utilized to provide for proposed projects selected to participate in the 2009 Wellhead Protection Grant Program.

		 2009 Sub-recipient Grant Parkersburg Utility Board has completed a \$21,424 project to install security fencing and overhead area lighting at three water supply wells. In addition, a total of 80 signs will be installed to identify to the public the boundaries of the Wellhead Protection Area, to provide contact information and explanation of facility purpose. New Martinsville Water and Sanitary Sewer Board has completed a \$69,988.00 project to properly abandon two wells and install a fence around a new well. A portion of the project costs (\$41,992.80) was funded through the 15% set-aside. The remainder (\$27,995.20) was funded from the 10%.
2.	Wellhead protection plans improved.	See above.
3.	Source water protection activities implemented.	 City of Parsons has completed a \$50,000 project to develop a Source Water Protection Plan, including an Emergency Response Plan to provide contingencies for emergencies including power outages and recurring flooding of the Cheat River. The plan will also address future water demands. Funds were originally allocated to provide for a hydrologic study at Mt. Top Public Service District and the development of a source water protection plan at Kingwood Water Works. However, these systems chose not to participate in the grant program; thus these funds will be utilized to provide for proposed projects selected to participate in the 2009 Source Water Protection Grant Program. 2009 Sub-recipient Grants
		1. City of Hurricane has completed a \$16,168 to provide for

- security improvements at a new reservoir and a public awareness brochure.
- 2. City of Elkins has completed a \$53,915 project to provide physical security measures for their source water. The water plant has two impoundment sites. Both areas are susceptible to dumping of waste and other contaminants. The impact of the project will affect a majority of Randolph County citizens because the City system also supplies outlying public service districts.
- 3. Jefferson County Public Service District completed a \$60,068.50 project to provide for a Preliminary Engineering Report to study water reclamation activities that will preserve and protect vulnerable groundwater.
- 4. New Martinsville Water and Sanitary Sewer Board has completed a \$69,988 project to properly abandon two wells and install a fence around a new well. A portion of the project costs (\$27,995.20) was funded through the 10% set-aside. The remainder was funded from the 15%. See previous section.
- 5. Jefferson County Commission was awarded \$83,027 to provide for three projects. The first regards their wellhead protection. This project will establish ground water monitoring of water quality and quantity in water wells located in the four major watersheds in Jefferson County. Money from this grant will be used to purchase data loggers, laboratory testing for water quality and software for managing the data collected. The second part of the project will be a pilot program consisting of two elements: 1) education about harmful materials by creating lessons to be used in the schools, distributing a handout to families, and writing press releases for the media; 2) collection of hazardous materials from home owners by a professional agency set up at the Solid Waste Authority Transfer Station in

		 Kearneysville. The last part of the project is an effort to erect signs to raise awareness to source water protection areas. The grantee was granted a six-month extension to complete the project, spending \$83,027. 6. Town of Cowen has applied for \$20,000 to provide security around their intake. A grant for \$14,735 was approved June 1, 2011. No invoice has been received. Their original project proposal became unviable. 7. Clarksburg Water Board was awarded \$11,743 to educate our customers to be our security eyes and ears throughout Water Watchers program and promote safe drinking water not only during National Drinking Water Week but all year long. The project is complete, \$4824.80 was spent.
4.	Source water protection plans improved.	See above.
5.	Interim progress summaries issued.	Provide invoice and program reports.
6.	Raw data including sample analysis, physical lithologic characteristics, and borehole geophysical logs.	Contract has been signed and is currently being implemented.

Progress Report of Supplemental Grant Funds Workplan: The Wellhead Protection and Source Water Protection Grant Programs were designed to offer grant opportunities to local public water systems interesting in performing source water protection through: studies of water resources, plans for protection, public outreach, etc. Grantees from these programs have been selected to receive and/or awarded funds provided for in Activities F (10%) and E (15%): Source Water Protection Grants.

From 2007 to 2010 a total of twenty contracts were completed at a cost of \$489,662. Two additional systems are pending contracts for an additional \$21,735. Grant Program scheduling and planning for 2011 was delayed due to a staff reduction. Staffing has been hired and scheduling and planning for the 2012 Grant Program provided funds will soon be available

Hydrologic Coal Mine Study – Project with the USGS, West Virginia Department of Environmental Protection and West Virginia Geological and Economic Survey (WVGES) to study the hydrological flow in abandoned coal mines in McDowell County, West

Virginia. Implementations of the approved project tasks are completed. Joint funding agreement contracts have been signed for \$81,700 to USGS for period July 1, 2008-June 30, 2009; \$65,200 to USGS for period July 1, 2009-June 30, 2010; \$25,000 to WVGES for period October 1, 2008-September 30, 2009; and for \$55,000 to USGS for October 1, 2010 to September 30, 2011. Total project cost to complete this study is \$650,000 with WV BPH/OEHS share being \$226,900. A total of \$226,900 has been disbursed to-date for this activity.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): No variance or deviation from plans required. Project is on schedule. Scheduling and planning for 2011 was delayed due to losing a staff position. Staffing has been hired and scheduling and planning for the 2012 Grant Program provided funds will soon be available. A total of \$716,562 has been disbursed to-date for both activities (Mini Grants and the USGS Study). The remaining \$48,638 (unexpended or pending contracts) will be utilized in the 2012 grant program or pending contracts.

I. Activity G (10%): Water Distribution (WD) and Chief Operator Training

II. Activity G (10%) Description: This activity will establish and conduct Water Distribution and Chief Operator training.

A contractor will:

- Create the following courses:
 - Water Distribution operator training.
 - Chief Operator training.
- Develop materials and hold courses in WV.
- Provide and/or arrange for course instructors.
- Schedule and conduct first year courses.
- Develop and produce written examinations (Water Distribution only).
- Issue certificates for course completion.
- Maintain course rosters and records.
- Provide a post-course evaluation and make appropriate course modifications.

III. Outcomes/Benefits:

No.	Planned Outcomes	Outcome Status
1.	Water Distribution and Chief Operator training program developed.	WD Course contract (EHS80370 effective 4/1/08 for \$48,925 with the WV Environmental Training Center) was completed 3/31/09. The 1 st contract renewal 4/1/09 was completed 3/31/10 for \$16,280. The 2 nd contract renewal 4/1/10 was completed 3/31/11 for \$21,100. Chief Operator Course contract (EHS80373 effective 6/15/08 for \$17,600 total with the WV Rural Water Association) was completed 6/14/09. The 1 st contract renewal 6/15/09 was completed 6/14/10 for \$14,600. The 2 nd contract renewal 6/15/10 was completed 6/14/11 for \$14,600.
2.	Water Distribution and Chief Operator classes taught.	No WD courses were taught during the reporting period as the contract has ended and will not be renewed. However, WV ETC continues to offer this training without a contract. No Chief Operator courses were taught during the reporting period since the contract has ended and will not be renewed. However, WV RWA continues to offer this training without a contract.
3.	Water Distribution and Chief Operators trained, tested and certified, where applicable.	Not applicable
4.	Public health protected through improved water system operation.	Properly trained and certified operators are an essential component of the multi-barrier approach to protecting drinking water.

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: Total planned for this activity is \$112,005 from the 10% set-aside and \$21,100 from the 15% set-aside. \$133,105 has been expended as of 12/31/11.

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status
1.	Teach remaining WD and Chief Operator classes.	Contracts and classes have been completed.
2.	Course records and certificates maintained.	No courses taught during this reporting period.

Progress Report of Supplemental Grant Funds Workplan: Water Distribution and Chief Operator contracts were developed to provide the required training across the state in accordance with operator regulations (64CSR4). The WD course was approved for 23-hours continuing education for operator renewal (CEH2008-052). The Chief Operator course was approved for 6-hours continuing education for operator renewal (CEH2008-063).

Contracts have developed new operator training resources, minimized travel costs since offered statewide and assisted operators and systems with state and federal rule compliance to ultimately enhance public drinking water protection. The training providers who were awarded the contracts continue to offer this type of training without a contract, extending their costs to the attendees instead of paying for from a grant.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): Failure to meet course participant minimum requirements caused two WD courses to be cancelled as per the contract. Project was completed on schedule.

I. Activity H (10%) & G (15%): Annualized Salaries

II. Activity H (10%) & G (15%) Description: Annualized salaries for Fiscal year 2012 have been earmarked as part of the redirection plan. Any of this money that remains unspent as of June 30, 2012, will be redirected into different areas with the next grant application.

III. Outcomes/Benefits:

No.	Planned Outcome	Outcome Status
1.	Oldest grants will be closed out first as funds are	Oldest grants are closed out in order.

disbursed.	

- IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.
- V. Resources: This activity is planned to use \$880,299 from the 10% set aside and an additional \$401,409 from the 15% set aside unexpended funds. The total planned for this activity is \$1,281,708 from both set asides.

VI. Schedules and Major Outputs:

No	Planned Output	Output Status						
1	Oldest remaining grant is closed out.	Grant 15384 (FFY 2007) was completed in September '11.						

Progress Report of Supplemental Grant Funds Workplan:

Grant 15384 has reached the goal of spending all monies available for salaries by September 2011. Salaries will be redirected to the next oldest grant for the SFY 2012. This redirection will remain in the salaries classification and will be transparent (no effect) in the Planned Activities Budget Report.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): No variance or deviation from plans required. Project is on schedule.

- I. Activity I (10%) & H (15%): Fringe Benefits
- II. Activity I (10%) & H (15%) Description: Fringe benefits for annualized salaries for SFY 2012 have been earmarked as part of the redirection plan. Any of this money that remains unspent as of June 30, 2012, will be redirected into different areas with the next grant application.

III. Outcomes/Benefits:

No.	Planned Outcome	Outcome Status					
1.	Oldest grants will be closed out first as funds are disbursed.	Oldest grants are closed out in order.					

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: This activity is planned to use \$304,973 from the 10% set-aside and an additional \$159,597 from the 15% set-aside unexpended funds. The total planned for this activity is \$464,570 from both set-asides.

VI. Schedules and Major Outputs:

No.	Planned Output	Output Status						
1.	Oldest remaining grant is closed out.	Grant 15384 (FFY 2007) was completed in September '11.						

Progress Report of Supplemental Grant Funds Workplan: Grant 15384 has reached the goal of spending all monies available for fringe benefits by end of September 2011. Fringe benefits will be redirected to the next oldest grant for the SFY 2012. This redirection will remain in the fringe benefits classification and will be transparent (no effect) in the Planned Activities Budget Report.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): No variance or deviation from plans required. Project is on schedule.

I. Activity J (10%) & I (15%): Current Expense

II. Activity J (10%) & I (15%) Description: Current Expense for the SFY2012 has been earmarked as part of the redirection plan. This includes, but not limited to, rent, office supplies, vehicle expense, copiers, phone, fax, postage, etc. Any of this money that remains unspent as of June 30, 2012 will be redirected into different areas with the next grant application.

III. Outcomes/Benefits:

No.	Planned Outcome	Outcome Status					
1.	Oldest grants will be closed out first as funds are disbursed.	Oldest grants are closed out in order.					

- IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.
- **V. Resources:** This activity is planned to use \$635,129 from the 10% set-aside and an additional \$1,276,338 from the 15% set-aside unexpended funds. The total planned for this activity is \$1,911,467 from both set-asides.

VI. Schedules and Major Outputs:

No.	Planned Output	Output Status						
1.	Oldest remaining grant is closed out.	Grant 15384 (FFY 2007) was completed in September '11.						

Progress Report of Supplemental Grant Funds Workplan: Grant 15384 has reached the goal of spending all monies available for current expenses by end of September 2011. Current expenses will be redirected to the next oldest grant for the SFY 2012. This redirection will remain in the current expenses classification and will be transparent (no effect) in the Planned Activities Budget Report.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): No variance or deviation from plans required. Project is on schedule.

- I. Activity K (10%) & J (15%): Indirect Costs
- II. Activity K (10%) & J (15%) Description: Indirect costs associated with annualized salaries have been earmarked as part of the redirection plan. Any of this money that remains unspent as of June 30, 2012, will be redirected into different areas with the next grant application.

III. Outcomes/Benefits:

No.	Planned Outcome	Outcome Status					
1.	Oldest grants will be closed out first as funds are disbursed.	Oldest grants are closed out in order.					

- IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.
- **V. Resources:** This activity is planned to use \$186,768 from the 10% set-aside and an additional \$152,054 from the 15% set-aside unexpended funds. The total planned for this activity is \$338,822 from both set-asides.

VI. Schedules and Major Outputs:

No.	Planned Output	Output Status						
1.	Oldest remaining grant is closed out.	Grant 15384 (FFY 2007) was completed in September '11.						

Progress Report of Supplemental Grant Funds Workplan: Grant 15384 has reached the goal of spending all monies available for indirect cost by end of September 2011. Indirect cost will be redirected to the next oldest grant for the SFY 2012. This redirection will remain in the indirect cost classification and will be transparent (no effect) in the Planned Activities Budget Report.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): No variance or deviation from plans required. Project is on schedule.

- I. Activity D (15%): WV Utility Management Institute
- II. Activity D (15%) Description: This activity will develop a WV Utility Management Institute (UMI) providing professional training, leading to a Utility Manager Certification. It will create a training curriculum leading to a Utility Manager Certification awarded to utility managers successfully completing all UMI courses.

The contractor will:

- Create the following courses:
 - Utility Management.
 - Utility Organization, Regulation and Law.
 - Modern Technology and Utility Management.
 - Human Resource Management for Utilities.
 - Utility Finance and Administration.
 - Public and Government Relations in Utility Management.
- Develop materials and provide to BPH.

III. Outcomes/Benefits:

No.	Planned Outcomes	Outcome Status						
1.	A WV UMI program is developed.	UMI program completed in August 2010.						
2.	Participating water system staff developed management expertise.	Grant agreement was sought for a provider to do training, however, the Agency Financial leadership deemed that a grant agreement was not appropriate; instead requiring OEHS to bid out the training. Bid specification is currently under development. The project should be put out to bid by June 30, 2012.						
3.	Better water system management, improved water system TMF capacity, and long-term viability.	Once a contractor is secured to provide the UMI training, the UMI training modules will be taught to interested utility managers from across the state.						
4.	Public health protected through improved water system management.	UMI curriculum is completed and contract specifications are in development for a provider to do training.						

IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.

V. Resources: This activity used a total of \$197,709 from the 15% set-aside funds.

VI. Schedules and Major Outputs:

No.	Planned Outputs	Output Status						
1.	UMI curricula developed.	Contract completed in August 2010.						
2.	UMI curricula taught to enrolled water system staff.	Contract in place to conduct training by July 2012 with all the course modules being taught at least once by July 2013.						

Progress Report of Supplemental Grant Funds Workplan:

A grant agreement was initiated with OEHS and West Virginia University National Environmental Services Center (WVU-NESC) for this project. WVU-NESC encountered considerable delays with the project due to software issues and the curriculum being over ten years old. Due to these significant delays WVU-NESC requested a twelve month no cost extension to allow additional time to complete the project. It should be noted that WVU-NESC will no longer be responsible for conducting the pilot phase of the project so resources can be utilized in completing the respective modules. Although the project was completed in August 2010 and it was previously reported that it will no longer be listed in this report because we sought to enter into a grant agreement with a provider to do training using this curricula for the next year. This has, however, been changed to a development of a contract bidding process to secure a vendor to conduct the UMI training. Contract bid specifications are currently under development with financial personnel and OEHS staff. It is expected that the contract will be ready for bidding by April 30, 2012, and a contract in place by June 30, 2012.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): A contract is being developed to secure a vendor that will perform the first year of training for water system officials.

I. Activity M (10%) & L (15%): Lab Equipment

II. Activity M (10%) & L (15%) Description: OEHS will purchase an Inductively Coupled Plasma – Mass Spectrometer, Discrete Analyzer, Glassware Washer, Gas Chromatograph – Mass Spectrometer, Gas Chromatograph – Electron Capture Detector, Sample Prep Unit, and a High Performance Liquid Chromatograph for the State Laboratory to aid in analysis of water samples and troubleshooting contamination problems.

III. Outcomes/Benefits:

No.	Planned Outcome	Outcome Status					
1.	The state will be able to analyze water samples and provide accurate results.	Equipment is operational at this time.					

- IV. EPA Key Performance Activity Measures (PAMs): There is no specific PAM except for the expenditure of grant funds which will be reported at the end of this report.
- V. Resources: This activity has disbursed \$218,321 from the 10% set-aside and is planned to use an additional \$278,486.10 from the 15% set-aside unexpended funds. The total planned for this activity is \$496,807 from both set-asides.

VI. Schedules and Major Outputs:

No.	Planned Output	Output Status
1.	The state lab will be equipped with an Inductively Coupled Plasma – Mass Spectrometer, Discrete Analyzer, a Glassware Washer, Gas Chromatograph/ Mass Spectrometer, and an Inductively Coupled Plasma –Electron Capture Detector.	Equipment is operational at this time.
2.	The state lab will be equipped with three Gas Chromatographs to analyze for pesticides, herbicides, and synthetic organic compounds.	Equipment has been installed & is being tested.
3.	The state lab will purchase a second GC/MS to test for Di(2-ethylhexyladipate) and Di(2-ethylhexyl)phthalate and a Flame Atomic Absorption instrument.	Equipment has not been ordered yet.

Progress Report of Supplemental Grant Funds Workplan: A proposal from the state lab staff for the above mentioned equipment has been reviewed by OEHS and an agreement has been made for the purchase of this equipment. The Inductively Coupled Plasma – Mass Spectrometer, Discrete Analyzer and the Glassware Washer have been purchased for a total of \$164,979 and a Gas Chromatograph - Mass Spectrometer for \$53,341.64 has also been purchased. In spring 2011 the OI Analytical Purge and

Trap sample prep unit for VOC and THM analysis was installed and upgraded for \$10,667. Bids for the three remaining GCs were received for a cost of \$183,486. The equipment was received in November 2011 but has not been paid for yet.

Explanations of Variance (\$) and Deviation from Plans (schedules and outputs): The WV state lab will order a second GC/MS for a cost of \$60,000. The lab will also purchase a Flame Atomic Absorption instrument for a cost of \$35,000. This should complete the laboratory equipment purchases on this redirected activity.

Financial Status of Set Asides:

The following tables will provide a snapshot picture of the unexpended set-aside funds and the redirection of those funds to the Supplemental Work Plan activities.

				300	Table 1	or Redire	ction of Prior	Grant Funds	15% Set-As	ide					
					Redirection	n Overal	l Sheet (Incl	udes Salaries	s, Fringes, &	& etc)					
		Activity A/15%	Activity B/15%	Activity C/15%	Activity D/15%	Activity E/15%	6 ActivityF/15%	Activity G/15%	Astivity H/15%	Activityel/15%	Activityel/15%	Activity K/15%	Activity L/15%		
Org 3044 15%									Fringes	Current Expenses	•				
Grant #	FIMS Balances as of 12-31-2011		GIS	United States Geological Survey	Utility	SWAP	Project &	Payroll 9 months 01-15-2012 thru	9 months 01-15- 12 thru 2012 thru 09-30-		9 months 01-15- 2012 thru 09-30-	. SWAP	Lab	Grant	2-2
		Development	Mapping	Coal Study	Management	MiniGrants	Planning Design	09-30-2012	2012	thru 09-30-2012	2012	Technical	Equipment	Balance	Committed Balance
16569 balance	\$ 112,165.22									La constante				\$0.0	
Committed 16569							\$ 84,904.88		,	\$ -					\$ 84,904.88
Not Committed -Pending 16569				<u> </u>				\$ -	\$ -	1	\$ -				
Not Committed 16569			ļ					<u> </u>	ļ	\$ 27,260.34				ļ	
17779 balance	\$ 166,648.55				lander stranger and the tree									\$0.0	— francisco de la constante de
Committed17779							\$ 130,968.92								\$ 130,968.92
Not commited-Pending 17779											\$ -				
Not Committed 17779										\$ 35,679.63					
19106 balance	\$ 1,285,986.95			1					1			1		\$0.0	D
Committed19106		\$ 104,334.00	\$ 24,776.40				\$ 142,132.33			\$ 154,796.02			\$ 183,486.10		\$ 609,524.85
Not commited-Pending 19106								\$ 379,108.50	\$ 150,730.08		\$ 144,494.40				
Not Committed 19106										\$ 2,129.12					
20419 balance	\$ 1,290,200.00										}			\$0.0	O
Committed 20419											\$ -				\$
Not commited-Pending 20419			\$ 100,000.00					\$ 22,300.50	\$ 8,866.48		\$ 7,559.87		\$ 95,000.00		
Not Committed 20419										\$ 1,056,473.16					
	\$2,855,000.72	\$104,334.00	\$124,776.40	\$0.00	\$0.00	\$0.00	\$358,006.13	\$401,409.00	\$159,596.55	\$1,276,338.27	\$152,054.27	\$0.00	\$278,486.10	\$0.0	\$825,398.65
	Blue means dollar an	nount is not under	contract but is in t	he works to be un	der contract in the	future.									

						Fe	deral (Only							
	vi	H.L.L. 10, A.J., A. S.			Table	for Redirection			0% Set-Asid	e			1.1000 m. 1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
				Red	direction O	verall Sheet (Inc	cludes Sal	aries, Fringe	es, & etc)						
Org 3045 10%		CONTA TRANSPORTAÇÃO INTRA PROPERTIDA DE CONTRA PROPERTIDA					CONTRACTION OF THE PARTY OF THE						T		
······································	Activity A/10%Activity B/10%Activity C/10% Activity D/10% Activity E/10%						Activity F/109	6 Activity H/10%	Activity I/10% Activity J/10%	Activity K/10% Activity L/109		6 Activity M/10%			
			- A.W.			initiani initiani wiliya initiani initiani initiani initiani initiani initiani initiani initiani initiani initi	hwa	Projected	Projected	Projected	Projected			//////////////////////////////////////	
	FIMS Balances as	- 1				Security	Source Water Mini Protection		9 months -01-15-2011 thru 9-	1	9 months ı 01-15-2011	SWAP	Lab	Grant	Committed
16569 balance Committed 16569	\$ 650.99									\$ 164.38		ς -	lan.	\$0.00	\$ 164.38
Not Committed -Pending 16569										3 104.36		3		CASSICIONISTI I INTERNATIONALIA ACCES	J 104.50
Not Committed 16569							<u> </u>			\$ 486.61	ļ				
17779 balance	\$ 177,249.73		(1)					\-\	ļ	7 100.01	///////////////////////////////////////			\$0.00	
Committed 17779	•									\$ 3,126.31		\$ 165,356.63	la de la companya de		\$ 168,482.94
Not commited - Pending 17779															
Not Committed 17779		mmaausssammmmmmaasssa			SIL PRITA ACMINISTRAÇÃO COCCOCIMINA ANTA PRIMA A		= 0 T 11 T 10 = 0 T 10 T 10 T 10 T 10 T	000 00000000000000000000000000000000000		\$ 8,766.79		mmaratou.eurostannastannastatoo.commatee.		9vvv4.67776679v4264v0v9v9v4264devcentfflenv	0.000 mm (0.000 mm)
19106 balance	\$ 352,916.27													\$0.00	
Committed 19106			\$ 26,296.34				\$ 8,806.28			\$ 71,684.56					\$ 106,787.18
Not commited - Pending 19106					\$ 25,698.69			023	\$ 30,377.51	<u></u>	\$ 29,281.12				
Not Committed 19106		S				\$ 29,973.42	\$ 16,078.22			\$ 12,692.43					
20419 balance	\$ 883,290.28												l	\$0.00	
Committed 20419										\$ -					\$ -
Not committed - Pending 20419			. <u> </u>		ļ		l	\$ 406,412.04	\$ 140,798.25	C 250 751 00	\$ 76,328.00				
Not Committed 20419	\$ 1,414,107.26	¢	\$ 26,296,34	ė	\$ 25,698.69	ć 10.199.97	¢ 20.069.01	\$ 494,096.28	\$ 171.175.76	\$ 259,751.99 \$ 356,673.07	¢ 105 500 11	\$ 165,356.63		0.00	\$ 275,434.49
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					Table	for Redirection	of Prior Gr	ant Funds 10	0% Set-Aside	•					
				Rec		erall Sheet (In									5.2
Org 3045 10%														mggamagan.	
		Activity A/10	Mactivity B/10%	Activity C/10%	Activity D/10%	Activity E/10%	Activity F/10%	Activity H/10%	Activity I/10%	Activity J/10%	Activity K/10%	Activity L/10%	Activity M/10%		
	2	1		A				Projected	Projected	Projected	Projected	\$1.5			
		Î <u>-</u>					Source Water	Payroll	Fringes	Current Expenses	Indirect		Lab		Committed
	FIMS Balances as	Project & Planning			1	Security	Mini	9 months	9 months	9 months	9 months	SWAP		Grant	
Grant #	of 12-31-2011	Design	Canacity Doy	GIS Mapping	AWOP & PBT	Enhancements	Protection Grants	30-2011 thru 9	-01-15-2011 thru 9 30-2012	9-30-2011 thru	01-15-2011 thru 9-30-2012	Technical	Equipment	Balance	Total
16569 balance	\$ 1,301.97	Design	Capacity Dev.	Gio iviapping	AVVUP & PBI	EIHIdilCements	Grants	30-2012	30-2012	9-30-2012	tnru 9-30-2012	recinical	Equipment	\$0.00	
Committed 16569	y 1,501.57									\$ 328.75			•	70.00	\$ 328.75
Not Committed -Pending 16569										7					
Not Committed 16569		ļ								\$ 973.22		}			Á
17779 balance	\$ 354,499.45			\$								\$		\$0.00	
Committed 17779										\$ 6,252.62		\$ 330,713.25		and the second section of the second second second second section sect	\$ 336,965.87
Not commited - Pending 17779															
Not Committed 17779					1					\$ 17,533.58					
19106 balance	\$ 590,512.53				1									\$0.00	
Committed 19106			\$ 44,000.00				\$ 14,735.00			\$ 119,945.25					\$ 178,680.25
Not commited-Pending 19106					\$ 43,000.00			\$ 146,716.50	\$ 50,828.78		\$ 48,994.25				
Not Committed 19106						\$ 50,152.64	26,902.67			\$ 21,237.45					
20419 balance	\$ 1,594,358.00												A CONTRACTOR OF THE PARTY OF TH	\$0.00	
Committed 20419										\$ -					\$ -
Not commited -Pending 20419				ļ				\$ 733,582.50	\$ 254,143.88		\$ 137,773.68				
Not Committed 20419										\$ 468,857.94	900			mm(9)	
	\$ 2,540,671.95	\$ -	\$ 44,000.00	\$ -	\$ 43,000.00	\$ 67,152.64	\$ 48,637.67	\$ 880,299.00	\$ 304,972.65	\$ 635,128.81	\$ 186,767.93	\$ 330,713.25	\$ - \$	0.00	\$ 515,974.87